

FIGURE 1

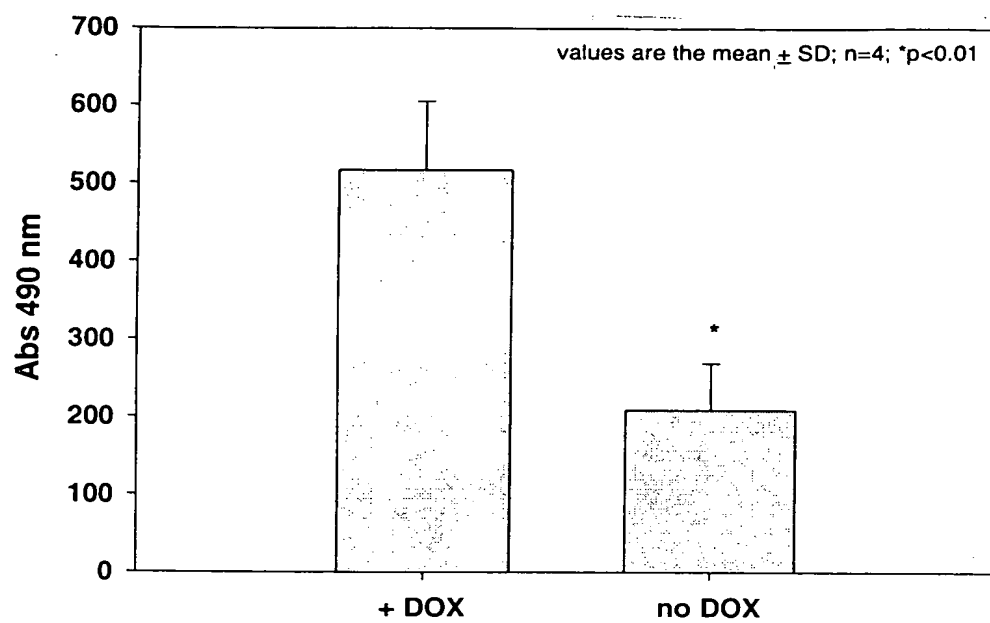


FIGURE 2

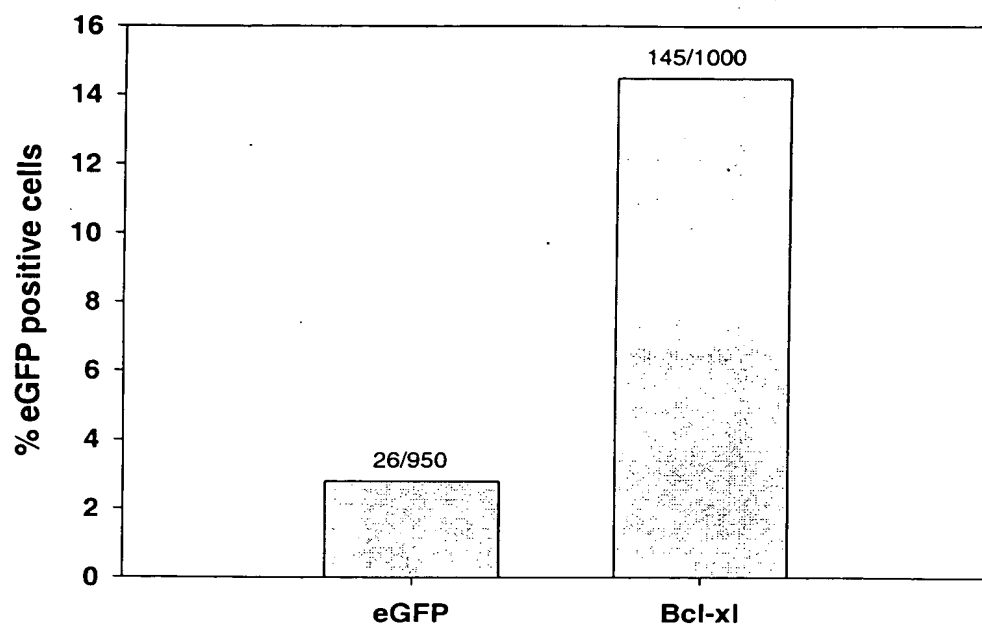


FIGURE 3

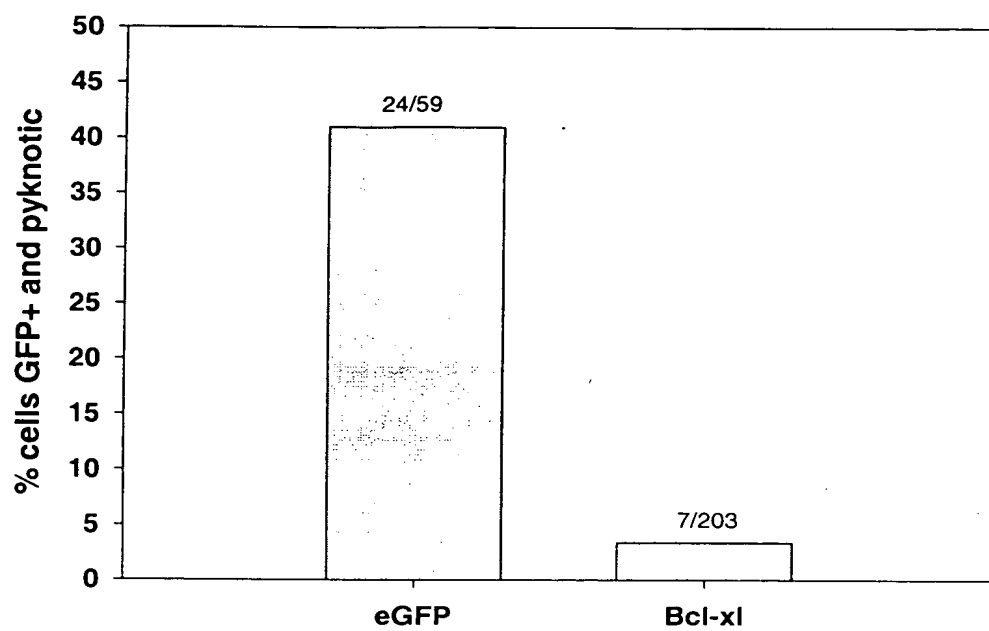


FIGURE 4

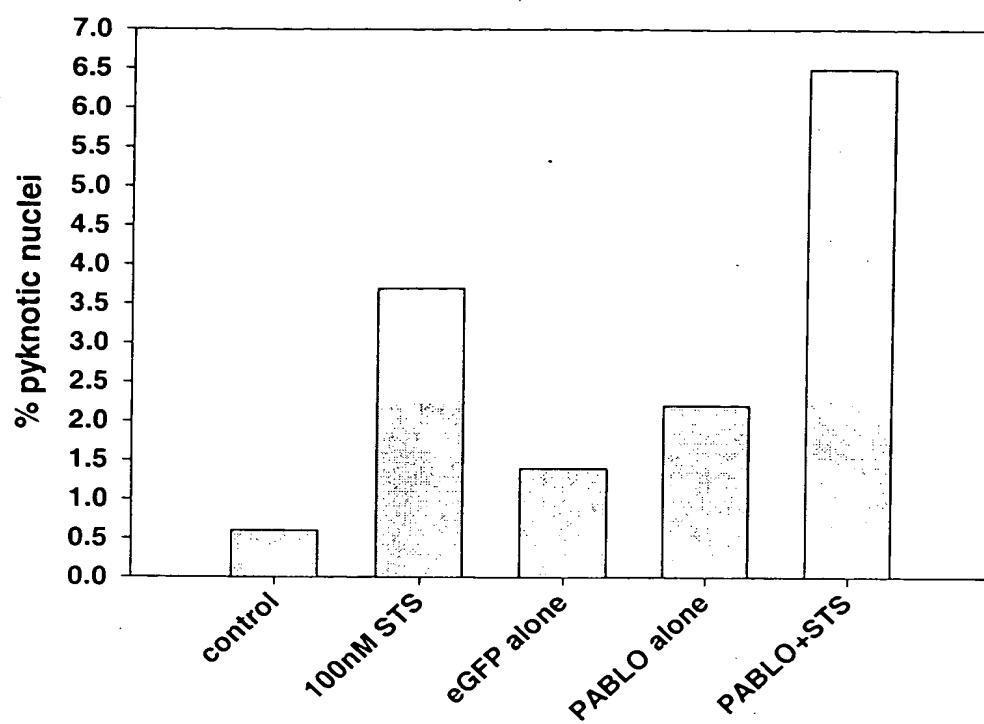


FIGURE 5

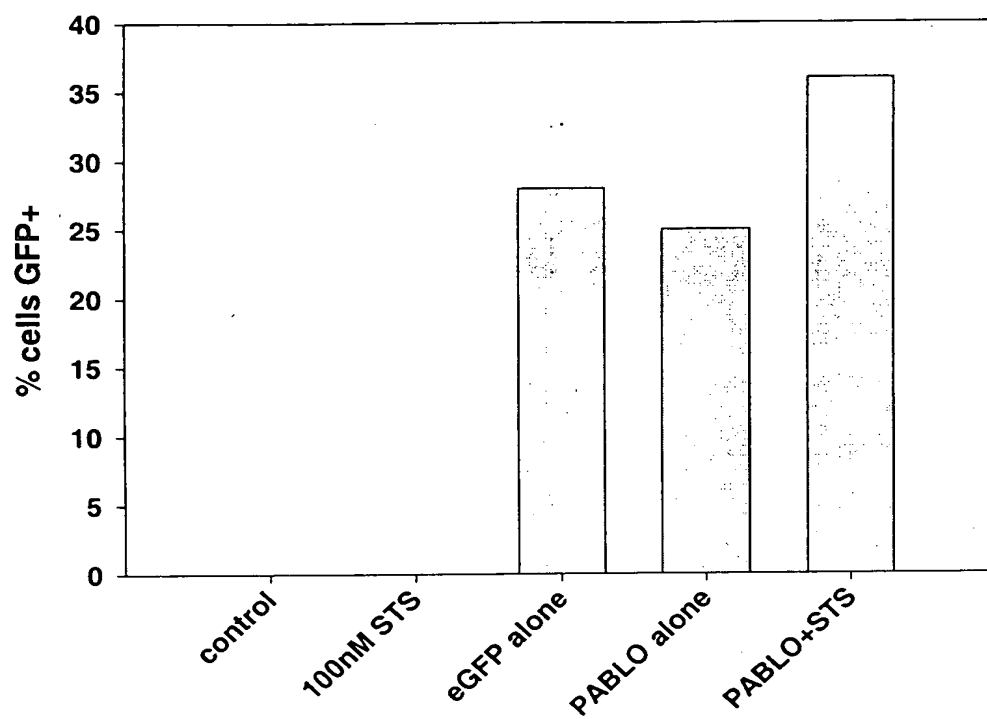


FIGURE 6

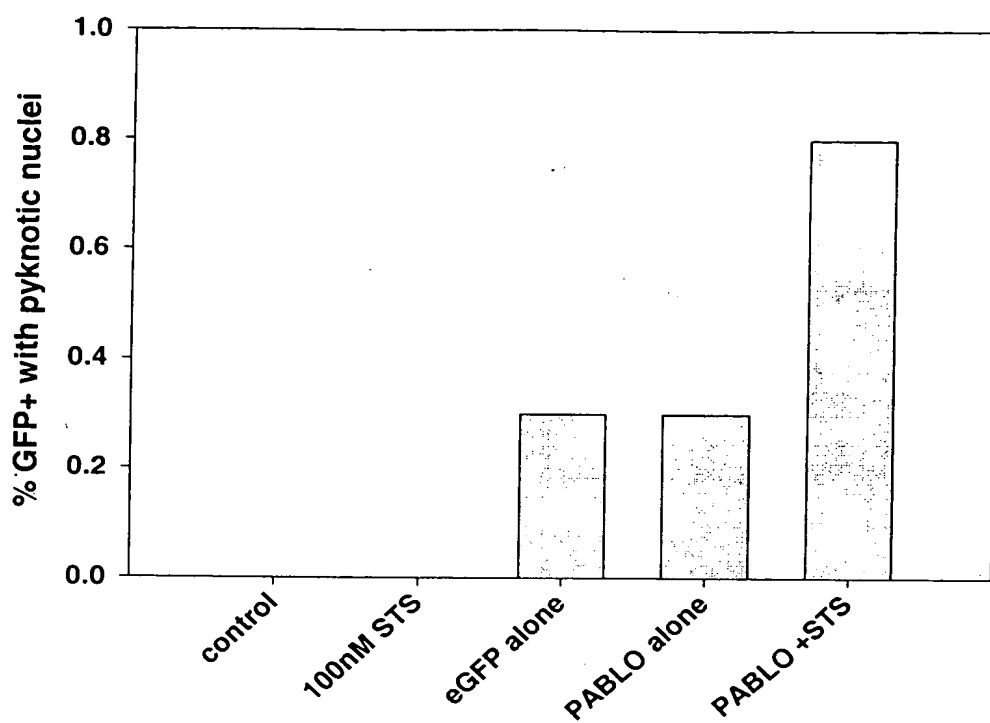


FIGURE 7

Effect of PABLO transfection on neuronal and non-neuronal cells

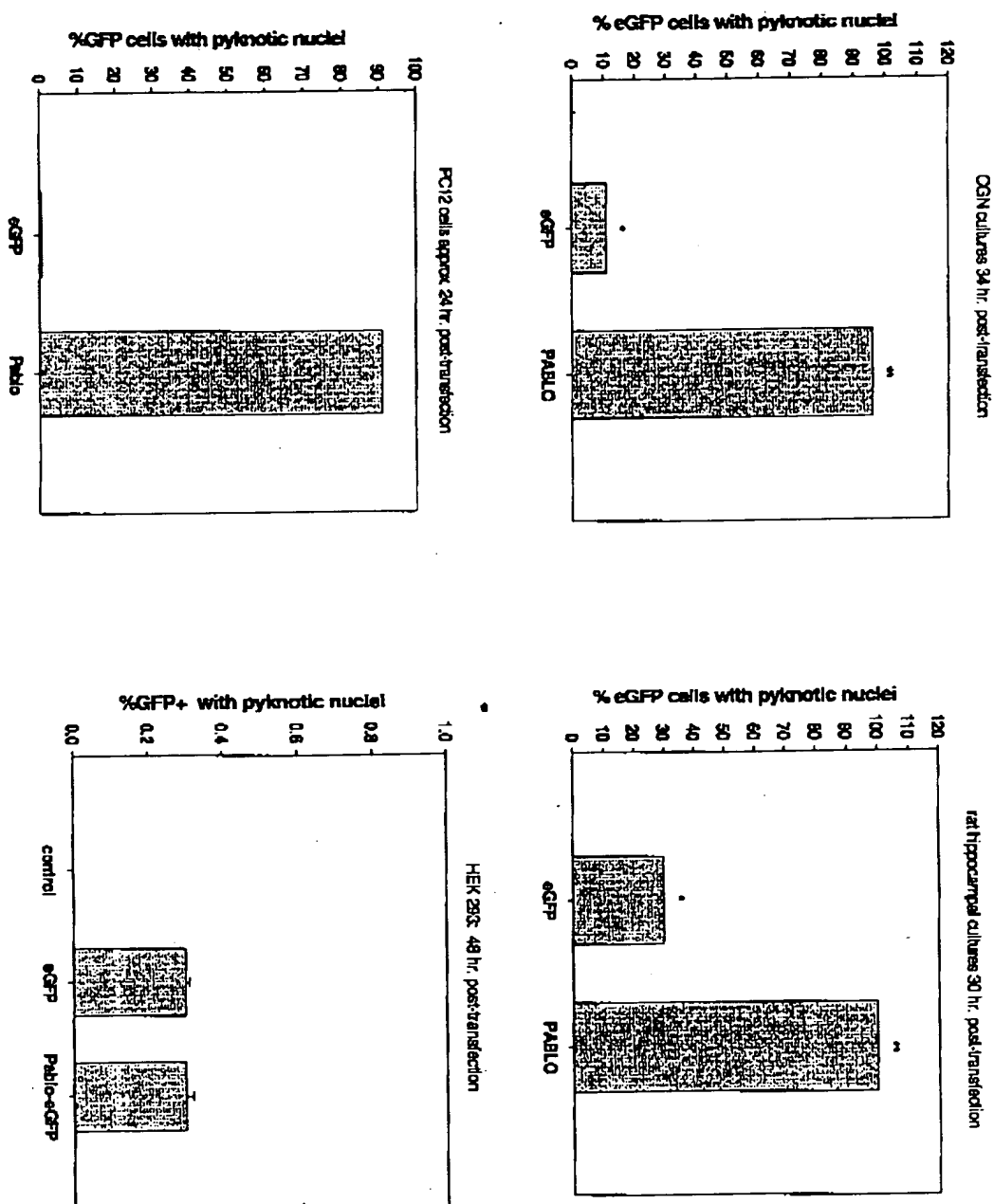


FIGURE 8

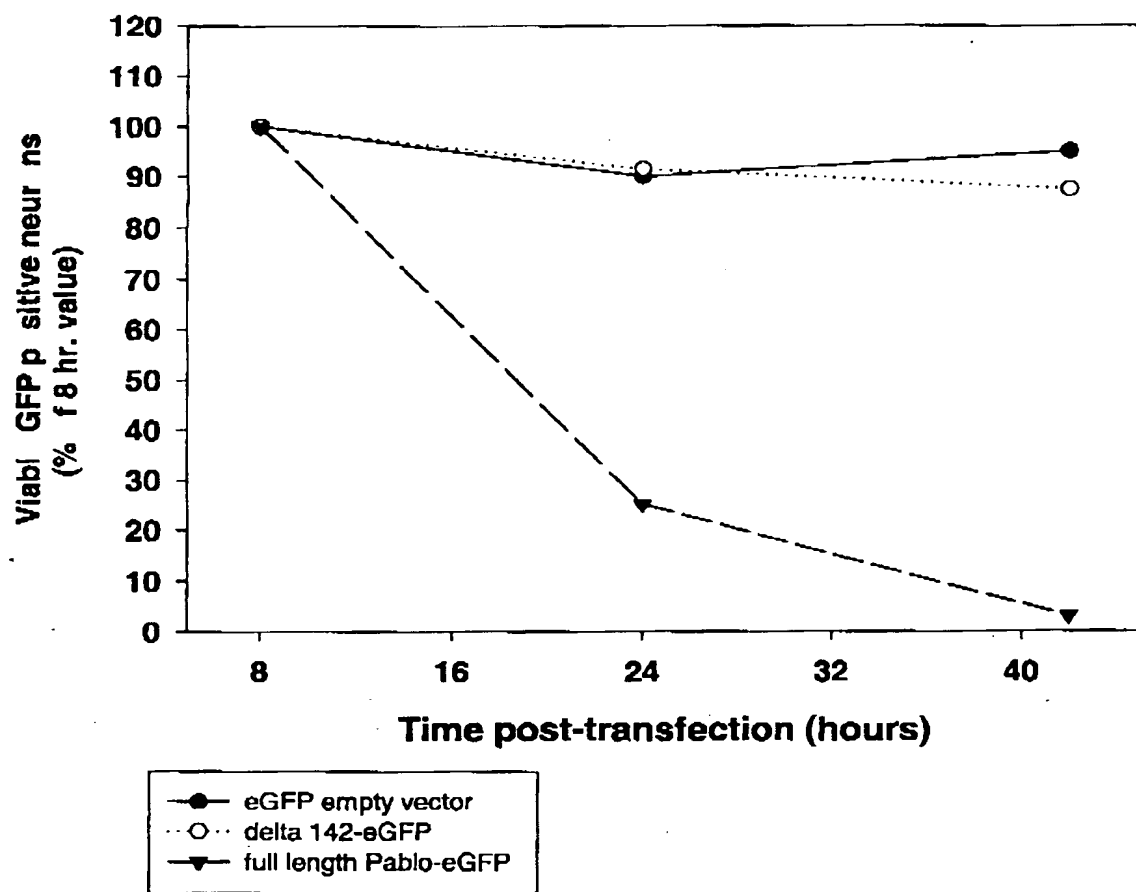


FIGURE 9

Figure 10: Bclxl (Δ TM)/pAS2-1

Bclxl/pAS2-1

| | 10 | 20 | 30 | 40 | 50 |
|-----------------|------------|------------|------------|---------------|------------|
| 19 Bclxl/pAS2-1 | CAGCTTTGAC | TCATATGAAA | ATGTCTCAGA | GCAACCGGGA | GCTGGTGGTT |
| | 60 | 70 | 80 | 90 | 100 |
| 19 Bclxl/pAS2-1 | GACTTTCTCT | CCTACAAGCT | TTCCCAGAAA | GGATACAGCT | GGAGTCAGTT |
| | 110 | 120 | 130 | 140 | 150 |
| 19 Bclxl/pAS2-1 | TAGTGATGTG | GAAGAGAACA | GGACTGAGGC | CCCAGAAGGG | ACTGAATCGG |
| | 160 | 170 | 180 | 190 | 200 |
| 19 Bclxl/pAS2-1 | AGATGGAGAC | CCCCAGTGCC | ATCAATGGCA | ACCCATCCTG | GCACCTGGCA |
| | 210 | 220 | 230 | 240 | 250 |
| 19 Bclxl/pAS2-1 | GACAGCCCCG | CGGTGAATGG | AGCCACTGGC | CACAGCAGCA | GTTTGGATGC |
| | 260 | 270 | 280 | 290 | 300 |
| 19 Bclxl/pAS2-1 | CCGGGAGGTG | ATCCCCATGG | CAGCAGTAAA | GCAAGCGCTG | AGGGAGGCAG |
| | 310 | 320 | 330 | 340 | 350 |
| 19 Bclxl/pAS2-1 | GCGACGAGTT | TGAACTGCGG | TACCGGCGGG | CATTCACTGA | CCTGACATCC |
| | 360 | 370 | 380 | 390 | 400 |
| 19 Bclxl/pAS2-1 | CAGCTCCACA | TCACCCAGG | GACAGCATAT | CAGAGCTTTG | AACAGGTAGT |
| | 410 | 420 | 430 | 440 | 450 |
| 19 Bclxl/pAS2-1 | GAATGAACTC | TTCCGGGATG | GGGTAAACTG | GGGTCGCATT | GTGGCCTTTT |
| | 460 | 470 | 480 | 490 | 500 |
| 19 Bclxl/pAS2-1 | TCTCCTTCGG | CGGGGCACTG | TGCGTGGA | AA GCGTAGACAA | GGAGATGCAG |
| | 510 | 520 | 530 | 540 | 550 |
| 19 Bclxl/pAS2-1 | GTATTGGTGA | GTCGGATCGC | AGCTTGGATG | GCCACTTACC | GGAATGACCA |
| | 560 | 570 | 580 | 590 | 600 |
| 19 Bclxl/pAS2-1 | CCTAGAGCCT | TGGATCCAGG | AGAACGGCGG | CTGGGATACT | TTTGTGGAAC |
| | 610 | 620 | 630 | 640 | 650 |
| 19 Bclxl/pAS2-1 | TCTATGGGAA | CAATGCAGCA | GCCGAGAGCC | GAAAGGGCCA | GGAACGCTTC |
| | 660 | 670 | 680 | 690 | 700 |
| 19 Bclxl/pAS2-1 | AACCGCTGAG | TCGACCTGCA | GCCAAGCTAA | TTCCGGGCGA | ATTTCTTATG |
| | 710 | 720 | 730 | 740 | 750 |
| 19 Bclxl/pAS2-1 | ATTTATGATT | TTTATTATTA | AATAAGTTAT | AAAAAAAATA | AGTGTAT |

Figure 11: Amino Acid Sequence of Bclxl (TM) Used As Bait In Yeast 2-Hybrid Screen.

| | | | | | | | |
|-----------|------------|----------|-----------|----------|-----------|-----------|-----------------|
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | |
| MSQSNREL | VDFLSYKLSQ | KGYSWSQ | FSDFVEENR | TEAPEGTE | SEMETPSA | INGNPSWHL | ADSPAVNGATA 70 |
| HSSSLDARE | VIPMAAVKQ | ALREAGDE | FELRYRRA | FSDLTSQ | LHITPGTAY | QSFQVNVN | ELFRDGVN |
| VAFFSFGG | ALCVESVD | KEMQVLVS | RIAAMMATY | INDHLEP | WIQENG | GWDTFV | ELYGNNA |
| NR | 212 | | | | | | AAESRKGQERF 210 |

Figure 12: Nucleotide Sequence of Pablo Δ142

| | | | | | | | |
|-------|--------------|-------------|--------------|--------------|--------------|-------------|------|
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | |
| <hr/> | | | | | | | |
| | atgccgtagtga | aaacacatcg | atcctaggcact | gtgccacacagc | actgcctagagc | attaaaga | 70 |
| | atgaactggaat | gtgtaaccaat | atttccctggca | aatataattag | acaactaagtag | cctaagta | 140 |
| | tgctgaagata | tatttggaga | attattcaatga | agcacatagtt | tttccttcagag | tcaactcat | 210 |
| | gaacgtgtgg | accgtttatc | tgttagtgttac | acagcttgatc | caaaaggaga | agaattgtct | 280 |
| | atataacaat | gaggaaagct | ttccgaagtt | ctacaattca | agaccagcag | cttttcgatc | 350 |
| | | | | | | | |
| 360 | 370 | 380 | 390 | 400 | 410 | 420 | |
| <hr/> | | | | | | | |
| | gcctattccat | tacaggagac | gtacgatgtt | gtgaacagcct | ccacctctca | atatactact | 420 |
| | agagatgatg | gtaaagaagg | ttctgaagttt | tataccaatc | cttcgtattt | ctttgatctat | 490 |
| | aaatgttgc | aagatacag | aggataagag | gaaagagga | agcagagaaa | aatctagatc | 560 |
| | tcatgaacc | agaaaaagt | gccaaagac | ctcatgacag | gcggcgaga | atggcagaag | 630 |
| | ccagagctg | gctgaagat | gatgctaatt | ctcttacata | agcataattg | aagttgcta | 700 |
| | | | | | | | |
| 710 | 720 | 730 | 740 | 750 | 760 | 770 | |
| <hr/> | | | | | | | |
| | attttgaaca | agacctcaga | catatcgatg | gatggatctt | tactcacttt | ctgccttgcc | 770 |
| | tagtcagatg | agttagctt | ctgactagag | ctgaggaagg | gtattagtc | agaccacatg | 840 |
| | cctccacca | atgcatgg | agcaggagat | gcaaaaccg | ataccacctg | atcagttctg | 910 |
| | tagaaaatc | gcccctcag | taccagctac | aggcagaaca | ccctgtgttg | tggagcccc | 980 |
| | tcaccacct | cttccatct | gccttgcact | ctcattca | agagcttca | atgacttca | 1050 |
| | | | | | | | |
| 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | 1120 | |
| <hr/> | | | | | | | |
| | ccagtagctc | ccccacctc | acacctcc | agccactg | ctttgcaagc | tccagcagta | 1120 |
| | ctcttcagat | tgcccctg | gagttctt | ctacccagc | tctcctcctc | caattgca | 1190 |
| | tccaccagta | gtagctgccc | cagtagtg | gagactgt | accagttcat | ccactccc | 1254 |

Figure 13: Amino Acid Sequence of Pablo Δ142

| 10 | 20 | 30 | 40 | |
|---|-----|-----|-----|-----|
| <hr/> | | | | |
| MPLVKRNIDPRHLCHTALPRGIKNELECVTNISLANIIRQ | | | | 40 |
| LSSL SKYAEDIFGELFNEAHSFSFRVNSLQERVDRLSVSV | | | | 80 |
| TQLDPKEEELS LQDITMRKA FRSS TIQDQQLFDRKTLPIP | | | | 120 |
| LQETYDVCEQPPPLN ILTPYRDDGKEGLKFYTNPSYFFDL | | | | 160 |
| WKEKMLQDTE DKRKEKRKQKQKNLDRPHEPEKVPRAPHDR | | | | 200 |
| 210 | 220 | 230 | 240 | |
| <hr/> | | | | |
| RREWQKLAQGP ELAEDDANLLHKHIEVANGPASHFETR PQ | | | | 240 |
| TYVDHMDGSYSLSALPFSQMSELLTRAEERVLVRPHEPPP | | | | 280 |
| PPPMHGAGDAKPIPTCISSATGLIENRPQSPATGRTPVFV | | | | 320 |
| SPTPPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPA | | | | 360 |
| TALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPV | | | | 400 |
| 410 | 420 | 430 | 440 | |
| <hr/> | | | | |
| ARAAPVCETVPVHPLPQG | | | | 418 |